

Message Text

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ACTION OES-06

INFO OCT-01 EUR-12 NEA-10 ISO-00 FEA-01 ACDA-10 CIAE-00
INR-07 IO-13 L-03 NSAE-00 NSC-05 EB-08 NRC-07 DODE-00
ERDA-07 /090 W
-----280143Z 068368 /63

R 270801Z JAN 77
FM AMEMBASSY NEW DELHI
TO SECSTATE WASHDC 804
INFO AMEMBASSY VIENNA

UNCLAS NEW DELHI 1205

VIENNA FOR IAEA

E.O. 11652: N/A
TAGS: TECH, IN
SUBJECT: ACTIVITIET THE NUCLEAR FUEL COMPLEX AT
HYDERABAD

FOLLOWING SENT ACTION NEW DELHI FROM AMCONSUL BOMBAY JAN 24,
1977 IS REPEATED TO DEPPT WITH INFO TO IAEA.

QUOTE
BOMBAY 0202

E. O. 11652: N/A
TAGS: TECH, IN
SUBJ: ACTIVITES AT HE NUCLEAR FUEL COMPLEX A HYDERABAD

THE FREE PRESS JOURNAL ON JANUARY 22 FRONT-PAGED HE FOLLOW-
ING ARTICLE ENTILED "A-FUEL: DAYS OF DEARTH GOING"; FULL
TEXT IS:

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THE NUCEAR FUEL COMPLEX (NFC) A HYDERABAD, AN
INDUSTRIAL ACIVITY OF HE DEPARTMEN OF ATOMIC ENERGY,
HAS BEEN GEARED TO MEET HE OTAL REQUIREMENT OF ATOMIC
FUEL AND ZIRCALOY COMPONENTS FOR THE PRESSURISED HEAVY
WATER REACTORS (PHWR) IN HE COUNTRY.

HUS, THE NFC WILL BE ABLE TO MEET THE REQUIREMENTS OF THE RAJASTHAN AOMIC POWER STATION AND THE MADRAS AMIC POWER STAION WHICH HAVE THIS TYPE OF REACORS. SIMILAR REACTORS ARE ALSO UNDER CONSTRUCTION AT NARORA IN UTTAR PRADESH.

NUCLEAR INDIA, THE OFFICIAL ORGAN OF THE DEPARMENT OF ATOMIC ENERGY, DISCLOSED THAT FABRICATION OF THE NUCLEAR FUEL AND ZIRCALOY STRUCTURAL COMPONENTS IN INDIA NOT ONLY MARKED A MAJOR STEP TOWARDS SELF-SUFFICIENCY BU WOULD ALSO BRING ABOUT CONSIDERABLE SAVING IN FOREIGN EXCHANGE.

THE PHWR UNITS REQUIRE ZIRCALOY FUEL COMPONENTS LIKE THIN WALLED UBES, RODS, WIRES, PLAES AND STRUCTURAL COMPONENTS SUCH AS CAANDRIA TUBES, COLANT TUBES, FLOW TUBES, ETC.

HE NUCLEAR FUEL COMPLEX WAS PRIMARILY SET UP FOR THE MANUFACTURE OF FUEL AND RELATED HARDWARE. THE NFC HAS NOW UNDERTAKEN THE ENTIRE RANGE OF OPERAIONS STARING FROM PROCESSING OF RAW MATERIAL CONCENTRAES TO FINISHING OF FUEL ASSEMBLIES AND OTHER ZIRCALOY REACTOR COMPONENTS.

THE NFC ALSO PREPARES ENRICHED URANIUM OXIDE AND ZIRCALOY FUEL COMPONENTS, SPACERS AND CHANNELS FOR THE BOILING WATER TYPE OF REACTORS AT THE TARAPUR ATOMIC POWER SAION.

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THE PRODUCT RANGE OF THE COMPLEX ALSO COVERS ULTRAPURE (ELECTRONIC GRADE MATERIALS), AND TANTALUM ANODES FOR THE ELECTRONICS INDUSTRY, AS WELL AS MICRO-SIZE ZIRCONIUM POWDER, AND ITANIUM SPONGE.

BESIDES THIS CORE ACTIVITY, NFC IS ALSO DIVERSIFYING ITS PRODUCTS AND SERVICES. A 2,000 T/YEAR SEAMLESS STAINLESS STEEL UBE PLANT, AND ITS FURTHER EXPANSION TO PRODUCE 21,000 T/YEAR OF BALL BEARING TUBES, AND 3,000 T/YEAR OF DRILL PIPES FOR HE OIL AND NATURAL GAS COMMISSION ARE PART OF ITS DIVERSIFICATION PROGRAMMES.

A NEW FACILITY FOR FABRICATING FUEL SUB-ASSEMBLIES (EXCLUDING THE FUEL PINS) AND VARIOUS OTHER RELATED COMPONENTS REQUIRED FOR FAST BREEDER TES REACTORS IS ALSO BEING ADDED O THE COMPLEX.

THERE HAS BEEN N FOREIGN COLLABORATION SO FAR A ANY SAGE IN THE DESIGN AND COMMISSIONING OF THIS COMPLEX

EXCEPTING THAT THE ERECTION AND COMMISSIONING OF EQUIPMENT SUCH AS THE EXTRUSION PRESS, TUBE REDUCING MILLS (PILGER MILLS), AN DIRECT READING SPECTROMETER WERE DONE UNDER THE SUPERVISION OF THE SUPPLIERS OF THE EQUIPMENT.

THE COMPLEX IS AN EXPERIMENT WHERE BENCH AND PILOT PLANT SCALE RESEARCH AND KNOWLEDGE HAVE BEEN TRANSFERRED AND RAISED TO FULL SCALE PRODUCTION WITH CONSIDERABLE SUCCESS. THIS SCALING UP WAS DONE WITH EASE AS ALL THE SCIENTISTS/ENGINEERS ENGAGED IN RESEARCH AND DEVELOPMENT IN THE PARTICULAR AREA WERE MADE RESPONSIBLE FOR TRANSLATING THEIR R & D WORK TO PRODUCTION LEVEL OPERATIONS.

"TO UNDERSTAND THE SIGNIFICANCE OF THE NUCLEAR FUEL COMPLEX, ONE HAS TO FULLY UNDERSTAND OUR ATOMIC ENERGY PROGRAMME. IT WOULD THEN BE REALISED HOW DEPENDENT WE

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WOULD HAVE BEEN ON FOREIGN AGENCIES TO ACCOMPLISH AND SUSTAIN THE PROGRAMME IF SUPPORT UNITS LIKE THE NUCLEAR FUEL COMPLEX, THE HEAVY WATER PLANS ETC. HAD NOT BEEN PUT UP IN THE COUNTRY" SAYS H.C. KATDIYAR, DEPUTY CHIEF EXECUTIVE OF THE COMPLEX IN AN ARTICLE IN THE JANUARY ISSUE OF NUCLEAR INDIA. END QUOTE. SIGNED COURTNEY UNQTESCHNEIDER

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Message Attributes

Automatic Decaptioning: X
Capture Date: 01-Jan-1994 12:00:00 am
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: NUCLEAR FUELS
Control Number: n/a
Copy: SINGLE
Sent Date: 27-Jan-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01-Jan-1960 12:00:00 am
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
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Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Expiration:
Film Number: D770030-0662
Format: TEL
From: NEW DELHI
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1977/newtext/t19770113/aaaaakub.tel
Line Count: 146
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
Message ID: f9bf38d0-c288-dd11-92da-001cc4696bcc
Office: ACTION OES
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 3
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 30-Sep-2004 12:00:00 am
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 3485575
Secure: OPEN
Status: NATIVE
Subject: ACTIVITIET THE NUCLEAR FUEL COMPLEX AT HYDERABAD FOLLOWING SENT ACTION NEW DELHI FROM AMCONSUL BOMB
TAGS: TECH, IN
To: STATE
Type: TE
vdkgvwkey: odhc://SAS/SAS.dbo.SAS_Docs/f9bf38d0-c288-dd11-92da-001cc4696bcc
Review Markings:
Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
22 May 2009
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009